

Lokhanin, K.A.

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 2057. BREAKING DOWN ROCKS BY MECHANICAL MEANS. Lokhanin, K.A.  
 (Ugol (Coal, Moscow), May 1955, 30-34). Descriptions, illustrations,  
 performance data and graphs are given for the cutting members on some  
 Soviet "excavators" (machines combining more than one mining operation).  
 The SHIPHACHEV Ch-3 cuts circular grooves up to 3 m in diameter with a  
 cruciform arrangement of cutters. The ShM-1u is a development of it,  
 with blades to shave off the rings left between the grooves. A  
 planetary cutter used on the construction of the Moscow underground  
 railway cuts a series of shallow, intersecting, circular grooves. The  
 PK-1 cuts a heading with a horseshoe shaped section of 8 sq.m. The  
 main cutting member has a standard oil well type drilling bit at its  
 center and a number of toothed wheel cutters revolving round it. There  
 are two subsidiary cutting members to form the bottom corners of the  
 section. (L).

GIPROUGLEMASH

KUZNETSOV, Aleksandr Aleksandrovich; LOKHANIN, K.A., otvetstvennyy redaktor;  
SMIRNOV, L.V., redaktor izdatel'stva; PROZOROVSKAYA, V.L., tekhnicheskii redaktor;  
NADZINSKAYA, A.A., tekhnicheskii redaktor

[PGA-3 grab bin unit] Prokhodcheskii greifernyi agregat PGA-3.  
Moskva, Ugletekhizdat, 1956. 37 p. (MLRA 9:12)  
(Coal mining machinery)

LOKHANIN, K.A., inzh.; ABMORSHEV, V.I., inzh.

The PK-3 cutter-loader for mining. Mekh.trud.rab. 11 no.7:37-39  
Jl '57. (MIRA 10:11)

(Mining machinery)

BAZHENOV, I.I.; GRIDIN, A.D.; DUMAYEV, M.N.; LOKHANIN, K.A.; SEMENOV, A.P.;  
HURMUKHAMEDOVA, V.F., red. izd-va.; IL'INSKAYA, G.M., tekhn. red.;  
ALADOVA, Ye.I., tekhn. red.

[Coal industry in Czechoslovakia] Ugol'naya promyshlennost'  
Chekhoslovakii. Moskva, Ugletekhizdat, 1958. 263 p. (MIRA 11:12)  
(Czechoslovakia--Coal mines and mining)

ABMORSMEV, Valentin Ivanovich; LOKHANIN, Konstantin Anatol'yevich;  
ASTAKHOV, A.V., otv.red.; LOMILINA, L.N., tekhn.red.

[PK-3 cutter-loader] Prokhodcheskii kombain PK-3. Moskva,  
Ugletekhizdat, 1959. 173 p. (MIRA 12:12)  
(Coal mining machinery)

ALEKSANDROV, B.F., inzh.; BALKOV, V.M., inzh.; BARANOVSKIY, F.I., inzh.;  
BOGUTSKIY, N.V., inzh.; BUN'KO, V.A., kand.tekhn.nauk, dotsent;  
VAVILOV, V.V., inzh.; VOLOTKOVSKIY, S.A., prof., doktor tekhn.nauk;  
GRIGOR'YEV, L.Ya., inzh.; GRIDIN, A.D., inzh.; ZARMAN, L.N., inzh.;  
KOVALEV, P.F., kand.tekhn.nauk; KUZNETSOV, B.A., kand.tekhn.nauk,  
dotsent; KUSNITSYN, G.I., inzh.; LATYSHEV, A.F., inzh.; LEYBOV,  
R.M., doktor tekhn.nauk, prof.; LEYTES, Z.M., inzh.; LISITSYN, A.A.,  
inzh.; LOKHANIN, K.A., inzh.; LYUBIMOV, B.N., inzh.; MASHKEVICH,  
K.S., inzh.; MALKHAS'YAN, R.V.; MILOSERDIN, M.M., inzh.; MITNIK,  
V.B., kand.tekhn.nauk; MIKHEYEV, Yu.A., inzh.; PARAMONOV, V.I.,  
inzh.; ROMANOVSKIY, Yu.G., inzh.; RUBINOVICH, Ye.Ye., inzh.;  
SAMOILYUK, N.D., kand.tekhn.nauk; SMEKHOV, V.K., inzh.; SMOLDY-  
REV, A.Ye., kand.tekhn.nauk; SHAGIN, V.T., inzh.; SNAGOVSKIY,  
Ye.S., kand.tekhn.nauk; FEYGIN, L.M., inzh.; FRENKEL', B.B., inzh.;  
FURMAN, A.A., inzh.; KHORIN, V.N., dotsent, kand.tekhn.nauk; CHET-  
VEROV, B.M., inzh.; CHUGUNIKHIN, S.I., inzh.; SHELKOVNIKOV, V.N.,  
inzh.; SHIRYAYEV, B.M., inzh.; SHISHKIN, N.F., kand.tekhn.nauk;  
SHPIL'BERG, I.L., inzh.; SHORIN, V.G., dotsent, kand.tekhn.nauk;  
SHTOKMAN, I.G., doktor tekhn.nauk; SHURIS, N.A., inzh.; TERPIGOREV,  
A.M., glavnyy red.; TOPCHIYEV, A.V., otv.red.toma; LIVSHITS, I.I.,  
zamestitel' otv.red.; ABRAMOV, V.I., red.; LADYGIN, A.M., red.;  
MOROZOV, R.N., red.; OZERNOY, M.I., red.; SPIVAKOVSKIY, A.O.,  
red.; FAIBISOVICH, I.L., red.; AREHANGEL'SKIY, A.S., inzh., red.;

(Continued on next card)

ALEKSANDROV, B.F.---(continued) Card 2.

BELYAYEV, V.S., inzh., red.; BUKHANOVA, L.I., inzh., red.; VLASOV, V.M., inzh., red.; GLADILIN, L.V., prof., doktor tekhn.nauk, red.; GREBTSOV, N.V., inzh., red.; GRECHISHKIN, F.G., inzh., red.; GONCHAREVICH, I.F., kand.tekhn.nauk, red.; GUDALOV, V.P., kand.tekhn.nauk, red.; IGNATOV, N.N., inzh., red.; LOMAKIN, S.M., dotsent, kand.tekhn.nauk, red.; MARTYNOV, M.V., dotsent, kand.tekhn.nauk, red.; POVOLOTSKIY, I.A., inzh., red.; SVETLICHNIYY, P.L., inzh., red.; SAL'TSEVICH, L.A., kand.tekhn.nauk, red.; SPERANTOV, A.V., kand.tekhn.nauk, red.; SHETLER, G.A., inzh., red.; ABARBARCHUK, F.I., red.izd-va; PROZOROVSKAYA, V.L., tekhn.red.; KONDRAT'YEVA, M.A., tekhn.red.

[Mining; an encyclopedic handbook] Gornoe delo; entsiklopedicheskiy spravochnik. Glav.red.A.M.Terpigorev. Chleny glav.redaktsii A.I. Baranov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.7. [Mining machinery] Gornye mashiny. Redkol.toma A.V.Topchiev i dr. 1959. 638 p. (Mining machinery) (MIRA 13:1)

AEMORSHEV, Valentin Ivanovich; LOKHANIN, Konstantin Anatol'yevich;  
SOSNOV, V.D., otv. red.; ABARBARCHUK, F.I., red. izd-va;  
OVSEYENKO, V.G., tekhn. red.

[PK-3 (PK-3m) cutter-loader] Prokhodcheskii kombain PK-3  
(PK-3m). 2. izd., dop. i perer. Moskva, Gosgortekhnizdat, 1962.  
219 p. (MIRA 16:1)

(Coal mining machinery)



LOKHANIN, K. A.

Industrial use of cater-loaders in coal mines of the Soviet  
Union. *Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch. 1*  
*tekh.inform. no.10:21-24 '62.* (MIRA 15:10)

(Coal mining machinery)

LOKHANIN, K.A.

Analysis of the operating efficiency of mining cutter-loaders.  
Ugol' 39 no.3:50-55 My'64. (MIRA 17:5)

1. Gosudarstvennyy proyektno-konstruktorskiy i eksperimental'nyy  
institut ugol'nogo mashinostroyeniya.

YATSKIKH, Valerian Grigori'yevich, kand. tekhn. nauk; ROSENBERG,  
Boris Leonovich, kand. tekhn. nauk; IMAS, Aleksandr  
Davydovich, inzh.; SPEKTOR, Leonid Abramovich, inzh.;  
KHORIN, D.N., doktor tekhn. nauk, retsenzent; LOKHANIN,  
K.L., inzh., retsenzent; FEYGIN, L.M., inzh., retsenzent;  
ABRAMOV, V.I., inzh., red.izd-va; MINSKER, L.I., tekhn.  
red.

[Mining machines] Gornye mashiny. [By] V.G.Iatskikh i dr.  
Moskva, Gosgortekhzdat, 1963. 382 p. (MIRA 16:10)  
(Coal mining machinery)

LOKHANOV, B.N.

Using mining methods without transportation in the Krasnogorsk  
open-cut mines of Kuznetsk Basin. Ugol' 36 no.11:25-28 N '61.  
(MIRA 14:11)

1. Glavnyy inzhener Krasnogorskogo razreza (Tomusinskiy rayon.  
Kuzbassa).

(Kuznetsk Basin--Strip mining)

LOKHANOV, B.N.; KOVALENKO, V.A.; BETANELI, K.P.; VESKOV, M.I.; DRANNIKOV,  
S.A.; IVANOV, K.I.; BEREZNYAK, M.N.; VASIL'YEV, Ye.I.;  
TSETSUL'NIKOV, V.R.

Trial operation of cutter loaders in mining with the room-and-pillar method. Ugol' 37 no.8:33-35 Ag '62. (MIRA 15:9)

1. Krasnogorskiy razrez (for Lokhanov, Kovalenko). 2. Institut gornogo dela im. A.A.Skochinskogo (for Betaneli, Veskov, Drannikov, Ivanov). 3. Kemerovskiy gornyy institut (for Bereznyak, Vasil'yev, Tsetsul'nikov).

(Coal mining machinery--Testing) (Mining engineering)

IVANOV, V.F., doktor tekhn. nauk, prof. [deceased]; ONUFRIYEV, N.M., doktor tekhn. nauk, prof.; ROT, A.V., kand. arkh. dots.; GRIGOR'YEVA, A.M., arkh.; ZAKHAR'YEVSKAYA, M.A., kand. tekhn. nauk; ZEL'TEN, L.V., kand. arkh.; KRAMSKOY, V.A., arkh.; KUNTSMAN, M.S., kand. arkh. dots.; LOKHANOV, G.I., arkh.; NIKOLAYEV, A.I., doktor tekhn. nauk, prof.; OSIFOV, Ye.A., kand. tekhn. nauk, dots.; SAKHNOVSKIY, K.V., doktor tekhn. nauk prof.; TRULL', V.A., kand. tekhn. nauk, dots.; KARRQ V.M., inzh., nauchn. red.; MARCOLIN, A.G., inzh., nauchn. red.

[Elements of buildings and structures] Konstruktsii zdani i sooruzhenii. Leningrad, Stroiizdat, 1965. 487 p.  
(MIRA 18:12)

Reaction of acid anhydrides with formates. I. Decomposition of formates by acetic anhydride. L. Kh. Fridlin, A. A. Balandin, and E. A. Loshakova. *Dokl. Akad. Nauk S.S.S.R.* 1, 311 (1953). *Khim. Akad. Nauk S.S.S.R.* 1, 311 (1953). Salts of HCO<sub>2</sub>H react with 1 mole Ac<sub>2</sub>O yielding AcOH, CO and the corresponding metal acetates. The cation of the salt affects the decompn. The reaction proceeds in the cold; with the Tl salt, it is complete at 60°, with the Na salt at 89°, and with the Li or Mn salts at 110°. Other formates are incompletely decomd. (Zn salt) or do not react at all (Ca salt). The reaction is accelerated by org. bases with a tertiary N atom, as well as by acids like AcOH. Strychnine is a more effective catalyst than AcOH. Addn. of such catalysts not only accelerates the reaction but may affect the position of the reactivity of the salt in the above list; particularly susceptible in this respect is the Tl salt. The kinetic curves of the reaction show max., which are characteristic of autocatalytic reactions. It is suggested that the reaction proceeds through an initial noncatalytic stage, after which the AcOH formed catalyzes the process. Cf. Whitford, *C.A.* 20, 303. II. Effect of the nature of the anhydride. *Ibid.* 350-4. The reaction of Tl and Na formates described in preceding abstr. is general for all aliphatic anhydrides. The Tl salt reacts even at room temp. and this reaction may be employed for qual. detection of the anhydrides. Anhydrides of dibasic acids require elevated temp. for reaction, while anhydrides of unsubst. dibasic acids do not react, nor do coumarin, phthalimide, or lactide. It was shown that, under the conditions described by Terolotes (*C.A.* 4, 2304), it is impossible to isolate the product of addn. of HCO<sub>2</sub>Na and Ac<sub>2</sub>O; the cryst. product is apparently AcONa.AcOH, and is completely free of formate.

G. M. Kossolapoff

LOKHANOV, E. A., SHIPOV, R. A. (Moscow)

"Rotating Stall in Compressors."

"On Boundary Conditions in Stability Problems of Compressors and the Energy Exchange of the Flow with the Surrounding Medium."

report presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb 1960.



*Локханская, В.И.*

LOKHANSKAYA, V.I., studentka VI kursa (Omsk)

Prothrombin level of the blood and its fluctuations in myocardial infarction. Klin.med. 35[i.e.34] no.1 Supplement:4 Ja '57. (MIRA 11:2)

1. Iz kafedry gosptal'noy terapii (zav. - prof. M.E.Vinnikov)  
Omskogo meditsinskogo instituta imeni M.I.Kalinina.  
(BLOOD--EXAMINATION) (HEART--INFARCTION)

LOKHATYUK, A.S., aspirant (Tomsk, Timiryazevskiy pr. d.9, kv.1)

Bile secretion following liver resection; exper. research. Vest.  
khir. 78 no.1:61-68 Ja '57. (MLRA 10:3)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. A.G.Savinykh)  
Tomskogo meditsinskogo instituta im. V.M.Molotova

(LIVER, surg.

exper. resection, eff. on bile secretion)

(BILE, physiol.

secretion, eff. of exper. resection of liver)

LOKHATYUK, A. S., Cand Med Sci -- (diss) "Output of bile in 12-fingered intestine in the case of liver resection. (Experimental research)." Tomsk, 1960. 11 pp; with illustrations; (Tomsk State Medical Inst); 200 copies; price not given; (KL, 17-60, 170)

LOKBIH, I. F.

Opredeleniye osobykh tochek analiticheskikh funktsiy. Gor'kiy, Ichen. Zap. un-ta, 12(1939), 135-156. O metode kangel'broyta dlya opredeleniya osobykh tochek na okruzhnosti skhoshnosti ryada teylera, Gor'kiy, Ichen, zap. un-ta, 12(1939), 157-162.

Opredeleniye osobykh tochen analiticheskikh funktsiy. Gor'kiy, Ichen. Zap. Un-ta. 12(1939), 135-156.

SO: Mathematics in the USSR, 1917-1947  
edited by Kurosh, A. G.  
Mark Shevich, A. I.  
Mashevskiy, I. K.  
Moscow-Leningrad, 1948

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PA 165129

USSR/Mathematics - Complex Functions  
Applied  
Calculating Techniques

1 Jun 50

"New Representation of an Integral (Entire) Analytical First-Order Function of the Normal Type," I. F. Lohkin  
"Dok Ak Nauk SSSR" Vol LXXII, No 4, pp 629-632

Offers new representation of integral (entire) function  $F(z)$  with aid of auxiliary function determined directly from interpolational data.  $F(z)$  is represented by means of an auxiliary function in the form

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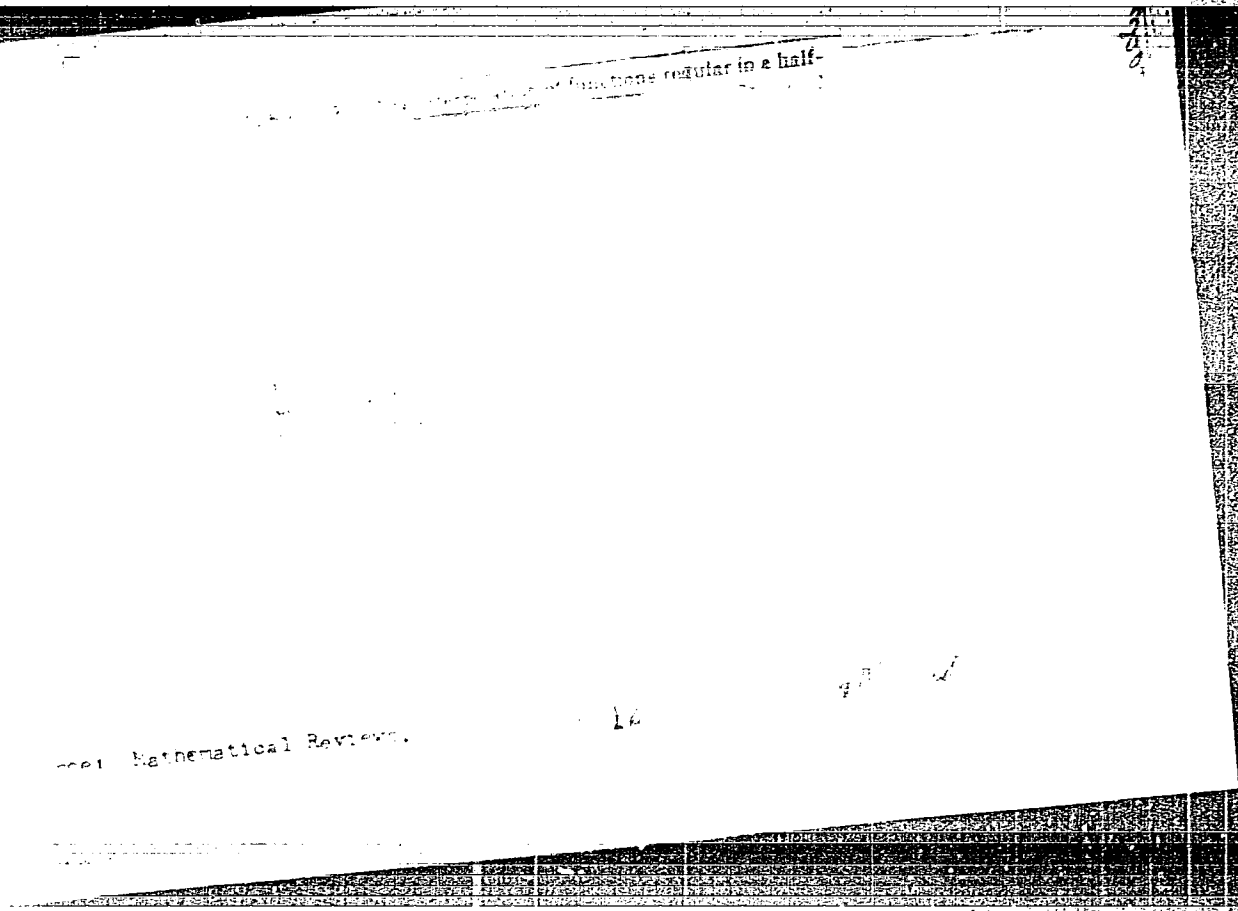
1 Jun 50

USSR/Mathematics - Complex Functions  
(Contd)

of a certain integral, from which one easily obtains, e.g., representations of a function by Newton's, Abel's, etc., series. Submitted 31 Mar 50 by Acad I. G. Petrovskiy.

165129

LOKHIN, I. F.



LOKHIN, I. F.

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Lohin, I. F. On completeness of a system of functions of the form  $\rho(x, z)$ . Doklady Akad. Nauk SSSR (N.S.) 81, 141-144 (1951). (Russian.)

Let  $0 < \lambda_1 < \lambda_2 < \dots$ ,  $\limsup_{k \rightarrow \infty} (\lambda_k \log k) \sum_{k=1}^{\infty} \lambda_k^{-1} = a > 0$ . Let  $f(z) = \sum_{k=0}^{\infty} a_k z^k / k!$  be an entire function of order one, mean type,  $a_k \neq 0$  ( $k=0, 1, 2, \dots$ ), and suppose that  $f(z) = \sum_{k=0}^{\infty} a_k z^k / k!$  is regular in the  $z$  plane with a straight line cut from  $-1$  to  $1$ . Then  $\{f(z, z)\}$  is complete in  $L^p(\sigma)$  if  $p < \infty$ . The proof uses the standard method of L. Carleson. The function  $g(z) = f(z, z)$  is regular in the  $z$  plane with a straight line cut in  $|\operatorname{Im}(z)| < a\pi$ . W. H. Fleming.

*Some of*

Source: Mathematical Reviews,

Vol 13 No. 6



LOKHIN, I. F.

3000

Lohin, I. F. On functions representable by series of Dirichlet polynomials.

The author shows that if the series  $\sum_{n=1}^{\infty} a_n n^{-s}$  and  $\sum_{n=1}^{\infty} b_n n^{-s}$  converge uniformly in each bounded region contained in  $\Re s > \sigma_0$  and if  $\sum_{n=1}^{\infty} a_n n^{-s} = \sum_{n=1}^{\infty} b_n n^{-s}$  for  $\Re s > \sigma_0$ , then  $a_n = b_n$  for all  $n$ .

$$f(s) = \int_0^{\infty} g(x) x^{-s} dx$$

be meromorphic with simple poles at  $-\lambda_n \pm i\mu_n$ . To prove his theorem the author studies a certain type of solutions of an equation of the form  $\sum_{n=1}^{\infty} a_n n^{-s} = \sum_{n=1}^{\infty} b_n n^{-s}$  for  $\Re s > \sigma_0$ .

Source: Mathematical Reviews,

Vol 13 No. 9

400 420

IOKHIN, I.F. (Moskva)

On the completeness of the system of functions  $\{f(\lambda, z)\}$ . Mat.  
sbor. 35 no.2:215-222 8-0 '54. (MIRA 7:9)  
(Functions, Entire)

LOKHIN, I.F. (Moskva)

Interpolation problem for entire functions. Mat.sbor. 35 no.2:  
223-230 S-0 '54. (MLRA 7:9)  
(Functions, Entire) (Interpolation)

LOKHIN, I. F.

"Associated Functions and Their Application." Dr Phys-Math Sci, Moscow  
Order of Lenin State U imeni M. V. Lomonosov, 28 Jan 55. (VM, 14 Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher  
Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55



16(1) 16.3000

05710

AUTHOR:

Lokhin, I.F. (Moscow)

SOV/39-49-3-6/7

TITLE:

On Linear Aggregates of Entire Functions

PERIODICAL:

Matematicheskii sbornik, 1959, Vol 49, Nr 3, pp 341-346 (USSR)

ABSTRACT:

For the investigation of the limit function of the sequence of linear aggregates

$$(1) P_n(z) = \sum_{\nu=1}^{P_n} a_{n\nu} f(\lambda_{\nu} z), \quad n = 1, 2, \dots$$

where  $f(z)$  is an analytic function, A.F. Leont'yev [Ref 1] proposed a new method in which, by means of the given function  $f(z)$  and numbers  $\lambda_{\nu}$ , a functional equation is constructed, the solutions of which are the  $f(\lambda_{\nu} z)$  as well as the limit functions of (1). In [Ref 1] the method was applied only when  $f(z)$  is of finite order and of normal type, especially for  $f(z) = e^z$ . In the present paper the author shows that the construction of the afore-mentioned functional equation is possible for every entire function. As an example the

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On Linear Aggregates of Entire Functions

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SOV/39-49-3-6/7

author extends the generalized Liouville theorem given in  
[Ref 2] to arbitrary entire functions.  
There are 2 Soviet references.

SUBMITTED: February 1, 1958

Card 2/2

LCKHIN, M. A.

"Biological Aging--One of the Chief Reasons for  
Cutting Red Clover",

Agrob. 4, 1948. Ukraine Affil., All-Union Inst.

Fodder im. V. P. Vil'yams, Poltava, -c1949-.



LOKHIN, V.K., inzh.

Electric power supply to new railroad construction projects.  
Transp. stroi. 15 no.9:26-28 S '65. (MIRA 18:11)

L 10761-63

ENT(d)/FCC(w)/BDS--AFFTC/APGS--IJP(C)

S/0040/63/027/003/0393/0417

ACCESSION NR: AP3003235

54  
53

AUTHOR: Lokhin, V. V.; (Moscow); Sedov, L. I. (Moscow)

TITLE: Nonlinear tensor functions of several tensor arguments

SOURCE: Prikladnaya matematika i mekhanika, v. 27, no. 3, 1963, 393-417

TOPIC TAGS: nonlinear tensor functions, functions of tensor arguments, construction of tensor functions, symmetry groups, textures and crystals, syngony of crystals

ABSTRACT: By applying similarity and dimensional analysis, methods are developed for automatic determination of properties of linear and nonlinear systems from their characteristic parameters. Two basic problems are solved: a) it is shown that properties of textures and crystals can be defined by means of tensors, and b) general expressions are established for arbitrary-rank tensors considered as functions of a number of scalars and of several

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L 10761-63

ACCESSION NR: AP3003235

independent tensors. It is shown that for the construction of tensor functions it is necessary and sufficient to use the complete system of functionally independent compatible invariants formed of the vector components defining the symmetry groups and of other tensor arguments. For the solution of these problems the authors present the general concepts of tensors, tensor bases, and tensor functions. The tensor is represented by the formula:

$$H = \sum_{s=1}^p k_s H_s, \quad (1)$$

where  $k_s$  are scalars and  $H_s$  are tensors of rank  $r$ . The methods of constructing general formulas of form (1) for tensor functions are derived on the basis of constructing the tensor base in terms of tensor arguments by means of multiplication and convolution operations. The peculiarities of symmetry groups of constructed tensor functions are analyzed. With the formulas derived, tensors defining the geometric symmetry of textures and crystals are studied. Simple systems of tensors defining the properties of 7 types of textures and 32 classes of crystals as well as the formulas for their determination are presented in tables. Tensors defining the symmetry group of the cubic, tetragonal,

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hexagonal, trigonal, rhombic, monoclinic, and triclinic syngonies are presented, and their properties are analyzed. General formulas are derived for components of the second, third, and fourth rank tensor functions of tensor arguments characterizing the geometrical properties of textures and crystals. Tensor functions for textures and crystals with additional tensor arguments are also considered. "The authors thank Yu. A. Sirotoy for his valuable advice in crystallography." Orig. art. has: 42 formulas and 1 table.

ASSOCIATION: none

SUBMITTED: 28Feb63

DATE ACQ: 23Jul63

ENCL: 00

SUB CODE: 00

NO REF SOV: 017

OTHER: 014

*Yur/Sirotoy*  
Card 3/3

S/020/63/149/002/010/028  
B112/B180

AUTHOR: Lokhin, V. V.

TITLE: A system of defining parameters which characterize the geometric properties of an anisotropic medium

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no. 2, 1963, 295-297

TEXT: The anisotropy properties of a continuous medium are often related to classes of equivalent directions. The symmetry of equivalent directions in each point of the medium is characterized by a certain point group. Therefore, anisotropic media may be classified by means of their symmetry point groups. The fundamental statement of the present paper is the following: An arbitrary tensor which is invariant under a given point group  $T$  can be represented in the form of a linear combination of tensors formed by the invariant tensor operations from a certain finite set of tensors  $A_{(r)}$  ( $r = 1, 2, \dots, l$ ) in such a way that none of its parts has the same property. The tensors  $A_{(r)}$  and their number  $l$  depend only on the structure of the group  $T$ .  
Card 1/2

A system of defining parameters which ...

S/020/63/149/002/010/028  
B112/B180

PRESENTED: December 18, 1962, by L. I. Sedov, Academician

SUBMITTED: December 14, 1962

Card 2/2

S/020/63/149/004/005/025  
B104/B186

AUTHORS: Sedov, L. I., Academician, Lokhin, V. V.

TITLE: Description with tensors of the point groups of symmetry

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no. 4, 1963, 796 -797

TEXT: It is indicated that the geometric characteristics of the symmetry of textures or crystals may be given completely and uniquely by a small set of simple tensors. This assumption can be proved by showing that the demand of invariant properties of the tensor basis is equal with the problem of a system of transformation matrices defining the given group of symmetry. Denotations and definitions of the basis tensors illustrating the symmetry of textures and of 32 classes of crystals given in a voluminous table may be used for the construction of general formulas expressing the dependence of scalars and tensors on a series of scalar and tensor quantities whereby the geometric properties of symmetry are taken into account. These formulas can be considered as a generalization of the Hamilton-Kely formula. There is 1 figure.

SUBMITTED: February 7, 1963  
Card 1/1

LOKHIN, V.V.

General forms of relationship between tensor fields in an anisotropic continuum whose properties are described by vectors, tensors of the second rank, and antisymmetric tensors of the third rank. Dokl. AN SSSR 149 no.6:1282-1285 Ap '63. (MIRA 16:7)

1. Predstavleno akademikom L.I.Sedovym.  
(Calculus of tensors) (Vector analysis)



LICKIN, V.V. (Moscow)

"On the models of anisotropic fluids".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

BEZUGLYY, A.Ye., polkovnik med.sluzhby; LOKHINA, I.F.; ROGOVA, Ye.A.

Clinical, roentgenological and morphological juxtaposition in  
chronic appendicitis. Sbor.nauch.trud.Kiev.okruzh.voen.gosp.  
no.4:131-134 '62. (MIRA 16:5)

(APPENDICITIS)

ORLOVSKIY, S.A.; GRIGOROVA, M.I.; LOKHINA, I.F.

Treatment of thrombophlebitis. Nov. khir. arkh. no.5:99-100 S-0 '60.  
(MIRA 14:12)

(PHLEBITIS)

(THROMBOSIS)

LOKHINA, P.

Effect of road surface on the life of tires. Avt.transp. 32  
no.7:19-20 J1 '54. (MIRA 7:9)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.  
(Tires, Rubber)

GUSLITSER, R., inzh.; LOKHINA, P., inzh.; TSUKERBERG, S., kand. tekhn. nauk.

Selecting proper tire pressure. Avt. transp. 36 no.1:10-12 Ja '58.  
(Automobiles--Tires) (MIRA 11:1)

LOKHITA, I. I.

PLASTIC BOOK REVISIONS 807/2419

Proceedings of the International Symposium on Macromolecular Materials, (Handbook on Macromolecular Materials, Vol. 4: Macromolecular Materials), Moscow, 1960. 720 p. Krieva 119 inserted. 45,000 copies printed.

Ed.: G. S. Pchelina-Lobayeva, Doctor of Technical Sciences, Professor; Ed. of 2nd: V. I. Lyubina, Doctor of Technical Sciences, Professor; Ed. of Publishing House: V. I. Lyubina, Engineer; Tech. Ed.: T. F. Sokolova; Managing Ed. for Information Literature (Moscow): I. M. Krasovskaya, Engineer.

REMARKS: This book is intended for machine-building and construction engineers, architects, and other persons interested in the properties of building materials. CONTENTS: This is the fourth of a four-volume Handbook on Macromolecular Materials. Volume 4 discusses macromolecular materials suitable for use in machine building and in other construction applications. Textiles, wood, plastic, cement, rubber, and glass materials and instances of these materials are reviewed and data on their physical and mechanical properties are listed. No personalities are mentioned. References follow individual chapters.

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LOKHMANTSIKO, V.A.

Epidemiology of trichinosis in Mogilev Province. Zdrav. Belor.  
5 no.1:50-52 Ja '59. (MIRA 12:7)

1. Iz Instituta malyarii, meditsinskoy, meditsinskoy parazitologii i  
gel'mintologii Ministerstva zdravookhraneniya SSSR (direktor instituta  
- prof. P.G. Sergiyev) i Mogilevskoy oblastnoy sanitarno-epidemiologi-  
cheskoy stantsii (glavnyy vrach A.N. Bakalov)  
(MOGILEV PROVINCE--TRICHINA AND TRICHINOSIS)

LOKHMANENKO, V. A., Cand Med Sci -- (diss) "Epidemiology of trichinellosis in the Morilevskaya oblast' of the belorussian SSR." Moscow, 1960. 19 pp; (Ministry of Agriculture USSR, All-Union Order of Lenin Academy of Agricultural Sciences im V. I. Lenin, All-Union Inst of Helminthology im Academician K. I. Skryabin); 200 copies; price not given; (KL, 28-60, 165)

LOKHMANKO, V. A., RYBALTOVSKIY, O. V. and KOSMINOV, N. E. (Scientific Co-worker, Assistant Professor and Assistant, Moscow Technological Institute of Meat and Milk Industry)

"About morphologic differences of Trichinella capsules"

Veterinariya, Vol. 38, no. 7, July 1961, p. 48

*See Co-worker, Moscow Technological Inst.  
Meat & Dairy Industry.*

LOKHMENKO, V. A., PLOTNIKOV, N. N.

"The Problem of Management of Trichiniasis in the Population"

from Bor'bas Boleznyarni, Obshchimi Dlya Cheloveka i Zhivotnykh (Zoonozy)  
Moscow, 1961.

LOKHMENKO, V.A., kand.med.nauk

Intensifying measures for the control of helinthiasis.  
Fel'd. i akush. 28 no.2:3-5 F'63. (MIRA 16:9)

1. Iz Instituta organizatsii zdravookhraneniya i istorii  
meditsiny imeni N.A.Semashko Ministertstva zdravookhraneniya  
SSSR.

(WORMS, INTESTINAL AND PARASITIC)

RYBALTOVSKIY, O.V., dotsent; KOSMINKOV, N.Ye., assistant;  
LOKIMANENKO, V.A., nauchnyy sotrudnik

Morphological differences of Trichinella capsules.  
Veterinariia 38 no.7:48-50 JI '61. (MIRA 16:8)

1. Moskovskiy tekhnologicheskii institut myasnoy i molochnoy  
promyshlennosti.

(Trichina and trichinosis)

YEGOROV, Yu.P.; LOKHMAChEV, V.F.; YAGUPOL'SKIY, L.M.

Infrared spectra of 1-phenyl-2-trifluoro methylethylene and its derivatives. Izv. AN SSSR.Ser.fiz. 26 no.10:1276-1277 0 '62. (MIRA 15:10)

1. Institut khimii polimerov i monomerov AN UkrSSR.  
(Ethylene—Spectra)

KORNEV, K.A. [Korniev, K.A.], doktor khim. nauk; KACHAN, A.A., kand. khim. nauk; LOKHMACHOV, V.F.; VOYTSEKHIYS'KIY, R.V. [Voitsekhivs'kiy, R.V.], kand. khim. nauk

Using ultraviolet spectroscopy for the investigation of the photodisintegration of polycaprolactam. Khim. prom. [Ukr.] no.1:65-66 Ja-r'63 (MIRA 17:7)

1. Institut khimii polimerov i monomerov AN UkrSSR. 2. Chlen-korrespondent AN UkrSSR (for Kornev).



LOKHMENKO, V.A.; NEYMAN, M.I., red.; MATVEYEVA, M.M., tekhn. red.

[Helminthic diseases and their prevention] Glistnye zabo-  
levaniia i ikh preduprezhdenie. Moskva, Medgiz, 1963. 31 p.  
(MIRA 16:10)

(WORMS, INTESTINAL AND PARASITIC)

LOKHMATEV, N.A. kandidat sel'skokhozyaystvennykh nauk

Sophora japonica's capacity to produce shoots. Priroda  
44 no.5:116-117 My '55. (MLRA 8:7)

1. Vladimirskaia agrolesomeliorativnaya stantsiya  
(Sophora)

KRONKEVICH, V.P.; LENKOVA, G.A.; BABENKO, N.S.; LOKHMATOV, A.I.

Photoelectric method for recording the achromatic interference  
fringe. Opt.i spektr. 11 no.1:112-117 JI '61. (MIRA 14:10)  
(Interferometry) (Photoelectric measurements)

LENKOVA, G.A.; LOKHMATOV, A.I.; SOSNOVSKIY, V.I.

Autocollimator with photoelectric recording. Izm. tekhn. no.8:  
20-21 Ag '63. (MIRA 16:10)

I 45974-66 WW/GD

ACC NR: AT6026435

(N)

SOURCE CODE: UR/0000/66/000/000/0092/0100

AUTHOR: Lokhmatov, A. A.

ORG: None

TITLE: The operation of gasdynamic bearings<sup>113</sup> in various gas mediaSOURCE: Leningrad. Nauchno-issledovatel'skiy i konstruktorskiy institut khimicheskogo mashinostroyeniya. Tsentrobeznyye kompressornyye mashiny (Centrifugal compressors). Moscow, Izd-vo Mashinostroyeniye, 1966, 92-100TOPIC TAGS: gas dynamics, gas bearing, gas lubricated bearing, gas lubrication, gas viscosity, helium, hydrogen<sup>17</sup>

ABSTRACT: The author discusses studies on bearings with gas lubrication based on experiments using air as the medium. It is pointed out that the results of these studies are inconclusive due to the fact that gas compressibility affects bearing work capacity and the compressibility of air and other gases are quite different. Tests were run using such gases as helium, freon and hydrogen to determine these differences. The tests were also designed to give further information on compressibility during the motion of a lubricating gas in the bearing clearance. The results of these tests prove that the basic data for the operation of gasdynamic bearings functioning using air are also applicable to gas media. Qualitative differences in bearing characteris-

Card 1/2

L 45974-66

ACC NR: AT6026435

tics occur only when the viscosity characteristics of the medium are very different from air. A comparison of the degree of gas compressibility in the bearing clearance under various working conditions can be made with respect to the dimensionless number  $\lambda$ . Higher compressibility in the clearance of bearings is observed for those gases whose viscosity is also high, providing that identical working conditions in various gas media are maintained thus refuting the author's hypothesis. Orig. art. has: 4 figures, 3 tables, 7 formulas.

SUB CODE: 13/ SUBM DATE: 08Jan66/ ORIG REF: 004/ OTH REF: 001

Card 2/2 *HS*

KOSHNIITSKIY, I.N., dotsent; KRICHKOVSKIY, G.F.; VERBITSKAYA, L.P.,  
dotsent; LYSENKO, N.I.; BIRBRAYER, M.L.; ALENGOZ, N.G.;  
LOKHMATOV, D.P.; YAROSHCHUK, A.A.

State of health of workers in the graphite industry. Vrach.  
delo no.8:134 Ag'63. (MLA 16:9)

1. Odesskiy meditsinskiy institut.  
(NO SUBJECT HEADINGS)

1. LOKHMATOV, N. A.
2. USSR (600)
4. Oaks
7. Dormant buds on the English oak. Les. khez. 5 no.10, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.



1. LOKHMATOV, N. A.
2. USSR (600)
4. Birch
7. Causes for early loss of shoot-forming capacity in European white birch. Les.khoz. 6, no. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

USSR / Forestry. Forest Cultures.

K

Abs Jour : Ref Zhur' - Biologiya, No 18, 1958, No. 82227

Author : Lokhmatov, N. A.

Inst : Not given

Title : Cuttings and Shoot Regeneration of the Hedge Maple  
(Acer campestre) on Southern Chernozem Soils

Orig Pub : Lesn. kh-va, 1958, No 3, 84

Abstract : No abstract given

Card 1/1

PYATNITSKIY, S.S.; KOVALENKO, M.P.; LOKHMATOV, N.A.; TURKEVICH,  
I.V.; STUPNIKOV, V.G.; SUSHCHENKO, V.P.; CHONI, G.P.;  
KRYLOVA, V.I., red.; FEVZNER, V.I., tekhn.red.; DEYEVA,  
V.M., tekhn. red.

[Vegetatively propagated forests] Vegetativnyi les. [By]  
S.S.Piatnitskii i dr. Moskva, Sel'khozizdat, 1963. 447 p.  
(MIRA 17:3)

TATEVOSOV, Sergey Romanovich, prof.; GANDZHA, I.M., red.; LOKHMATYY,  
Ye.G.

[Treatment of cardiovascular patients at Crimean resorts;  
a manual for physicians] Lechenie serdechno-sosudistykh  
bol'nykh na kurortakh Kryma; rukovodstvo dlia vrachei. Kiev,  
Gos.med.isd-vo USSR, 1959. 94 p. (MIRA 12:8)  
(CRIMEA--CLIMATOLOGY, MEDICAL)  
(CARDIOVASCULAR SYSTEM--DISEASES)

LOKHONOVA, N. V.

Voznesenskii, V.D., Gurevich, A.E., and L<sup>x</sup>okhonova, N.V. RAPID DETERMINATION OF SILICA IN LIMESTONES, DOLOMITES, AND CLAYS BY DECOMPOSITION WITH CONCENTRATED HYDROCHLORIC ACID UNDER PRESSURE. Zavodskaya Lab. 2 (7) 37-40 (1933). -- A complete decomposition with quantitative separation of  $\text{SiO}_2$  was effected at  $250^\circ$  in 30 min. with dolomites and limestones and in 1.5 hr. with clays. The losses of  $\text{SiO}_2$  in filtration do not exceed those of  $\text{SiO}_2$  obtained by the decomposition with alkali carbonates. RAPID DETERMINATION OF PURE SILICA IN NIKITOV DOLOMITES BY USING CORRECTIVE COEFFICIENTS IN INSOLUBLE RESIDUES. Ibid., (8) 19-21.

LOKHOV, I. I.

PA 16T74

USSR/Drilling Machinery  
Petroleum-Well drilling

May 1947

"Some Power Coefficients for Drilling Oil Holes  
with Portable Machines," I. I. Lokhov, B. A.  
Rusanov, 5 pp.

"Energeticheskiy Byulleten'" No 5

Discussion, illustrated with a graph and tables,  
of operating data, leading to the conclusion that  
portable drilling units equipped with derricks  
are preferable for shallow drilling (down to 1000  
meters) in both speed and economy.

16T74

1. LCKHOV, I.I.
2. USSR (600)
4. Electric Power Plants
7. Analysis of the construction of diesel electric power stations, Energ.Miul. no. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

AUTHOR: Lokhov, K.V., Engineer 28-6-18/40

TITLE: Cord Fabric for Tire Casings (Kordnaya tkan' dlya karkasa shinnykh pokryshek)

PERIODICAL: Standartizatsiya, 1957, # 6, p 50 (UJSR)

ABSTRACT: Information is given on the new standard, "ГОСТ 8537-57", for "kapron" cord fabric.  
The rupture load for a "kapron" cord of 34.5/4x2 will not be less than 14 kg. The cord gage is 0.55 mm. The new cord will increase the road life of tires by 30%.

The standard comes into effect on 1 Jan 58, but the new conditions for the elongation of cords under normal load conditions and at 80°C will take force only on 1 July 58.

ASSOCIATION: Committee of Standards, Measures and Measuring Devices (Komitet standartov, mer i izmeritel'nykh priborov)

AVAILABLE: Library of Congress  
Card 1/1 1. Industry-USSR 2. Tires-Fabric-Standards



AUTHOR: Lokhov, K.V., Engineer SOV-28-58-4-8/35

TITLE: The Textile Workers' Demands Upon the Chemical Industry  
(Trebovaniya tekstil'shchikov k khimicheskoy promyshlenosti)

PERIODICAL: Standartizatsiya, 1958, Nr 4, pp 29 - 30 (USSR)

ABSTRACT: The introduction of new state standards in 1958-59 for textile materials such as rayon, acetate, viscose, etc. will entail the necessity of raising requirements as to the quality of dyestuffs, accessory and dressing materials, synthetic filaments, etc., received from the chemical industry. The reorganization of standards relating to production methods and chemical materials is therefore needed.

ASSOCIATION: Komitet standartov, mer i izmeritel'nykh priborov (Committee of Standards, Measures and Measuring Instruments)

1. Chemical industry--USSR
2. Textiles--Standards
3. Textiles--Production

Card 1/1

LOKHCV, K.V.

Supplement to the State Standard 6607-53. Standartizatsiia 25  
no.8:52 Ag '61. (MIRA 14:7)  
(Silk--Standards)

LOKHOV, M.G.

Decline in morbidity of brucellosis in Saratov Province. Zhur.  
mikrobiol.epid. i immun. 28 no.9:21-25 S '57. (MIRA 10:12)

1. Iz Saratovakogo instituta "Mikrob".  
(BRUCELLOSIS, prevention and control,  
in Russia (Rus))

LOKHOV, M.G.; GUREVICH, R.M.

Results of attempts to eradicate brucellosis in sheep and goats.  
Zhur.mikrobiol.epid. i immun. 28 no.9:16-21 S '57. (MIRA 10:12)

1. Iz Saratovskogo instituta "Mikrob" i Saratovskoy veterinarno-  
opytnoy stantsii.

(BRUCELLOSIS, prevention and control,  
in goats & sheep (Rus))

(GOATS, diseases,  
brucellosis, eradication (Rus))

(SHEEP, diseases,  
same)

LOKHOV, M. G., and SEBERNOVA, A. I.

Pigment produced by plague bacilli. Vest. Microbiol., Epidemiol., & Parasitol.  
9:109-12. '30.

ABRAMOV, K.N., inzh.; LOKHOV, M.I., inzh.

Conversion of an AK-12(TN-65) turbine to seasonal operation  
with 1,2--1,6 atm. back-pressure back pressure. Energetik  
11 no. 12:21-23 D '63. (MIRA 17:5)

LOKHOV, N.A.

AVDEYEV, M.I., professor; LOKHOV, N.A., redaktor; MAKAROVA, A.N.,  
tekhnicheskiy redaktor

[Forensic medicine] Sudebnaya meditsina. Izd. 4-oe, perer. i dop.  
Moskva, Gos. izd-vo iurid. lit-ry, 1953. 519 p. (MLRA 9:12)  
(MEDICAL JURISPRUDENCE)

BUNEYEV, A.N., redaktor; LOKHOV, N.A., redaktor; MAKAROVA, A.N., tekhnicheskyy redaktor.

[Forensic psychiatry] Sudebnaya psikhatriya. Moskva, Gos. izd-vo  
iuridicheskoi lit-ry, 1954. 378 p. (MLA 8:1)  
(Psychology, Forensic)



AVDEYEV, H.I., prof., red.; LOKHOV, N.A., red.; KOSAROVA, Ye.N., tekhn, red.

[Problems in forensic medicine expertise collection of articles]  
Voprosy sudebno-meditsinskoi ekspertizy; sbornik statei. Moskva,  
Gos. izd-vo iurid. lit-ry. No.3. 1958. 430 p. (MIRA 11:10)  
(MEDICAL JURISPRUDENCE)

BUNEYEV, A.N., prof., red.; KALASHNIK, Ya.M., starshiy nauchnyy  
sotr., red.; LUNTS, D.R., starshiy nauchnyy sotr.; LOKHOV,  
N.A., red.; KOSAREVA, Ye.N., tekhn. red.

[Problems in forensic psychiatric expertise] Voprosy sudebno-  
psikhiatricheskoi ekspertizy; metodicheskie stat'i i instruktiv-  
nye materialy. Pod red. A.N. Buneeva, IA.M. Kalashnika, D.R. Luntsa.  
Moskva, Gosizdat, 1955. 178 p. (MIRA 15:12)

1. Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut su-  
debnoy psikhiatrii.

(~~FORENSIC~~ PSYCHIATRY)

1ST AND 2ND ORDERS      PROCESSES AND PROPERTIES INDEX

COMMON ELEMENTS

COMMON VARIABLES INDEX

OPEN MATERIALS INDEX

ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

SECURITY

EXIGED MAP ONLY ONE

RELATIONS

FROM SOURCE

EXIGED MAP ONLY ONE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

11

A Generator for a Multi-Crater Arc and a Set of Universal Accessories for Spectrographic Analysis. P. F. Lokhov (*Izv. Akad. Nauk S.S.S.R.*, 1945, (Fig.), 8, (6), 753-758).—(In Russian). By superimposing a magnetic field on the ordinary A.C. arc greater stability of the spectrum is obtained because a number of arcs are struck instead of one. A combined spark and arc source for use with a steelometer is described, with the aid of a circuit diagram; either form of excitation can be selected by means of two double-throw switches. In the determination of Mo in steel, better results were obtained with the multiple arc than with the spark source. A set of five gadgets for improving the efficiency of the steelometer is also described and illustrated. —N. B. V.

1st AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

1st AND 2ND ORDERS

A

S

COMMON ELEMENTS

COMMON VARIABLES INDEX

INTERNAL INDEX

OPEN

ASR-31A DETALLURGICAL LITERATURE CLASSIFICATION

10-214. Application of the A.C. Arc With  
Magnetic Extinction as a Light Source  
for Spectral Analysis With the "Steel-  
ometer". P. F. Lokhov. Factory Lab-  
oratory (U.S.S.R.), v. 15, May 1947, p  
628-630. (In Russian.)  
The circuit for the above permits  
rapid transition from one means of  
operation to the other. Comparative  
results of chemical and spectroscopic  
analysis for small concentrations of  
Mo, Mn, Cr, W, and Ni. Analysis us-  
ing the usual apparatus for these ele-  
ments is said to be almost impossible.

ASR-31A DETALLURGICAL LITERATURE CLASSIFICATION

1st AND 2ND ORDERS

1st AND 2ND ORDERS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
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LOKHOV, P.F.

An alternating current arc circuit with magnetic stabilization  
for spectrum analysis. Zhur.anal.khim. 10 no.5:331-333 S-O '55.  
(Spectrum analysis) (MIRA 9:1)

Lukhov, P F

15  
 Spectrum analysis of Dinax (silicate refractory brick) and quartzite. ~~P. F. Lukhov, G. A. Kiyushin, and M. K. Volkova (Met. Inst. Chelvalansk). Zashchitaya Lab. 23, 631-4(1957).~~ The sample was volatilized from a depression in a C electrode of an a.c. arc with magnetic arc-stabilization. ~~M. O, Fe<sub>2</sub>O<sub>3</sub>, Al<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub>, CaO, and SiO<sub>2</sub> results of 2 samples were in good agreement with the analytical data.~~ W. M. Stearnberg.

6  
1-4ERC

11

VARCHEVSKIY, I.S.; LOKHOV, P.F.; KLYUSHIN, G.A.; YUDIN, V.F.

Brief reports. Zav.lab. 25 no.2:243-244 ' 59. (MIRA 12:3)

1. Institut geologii poleznykh iskopayemykh AN USSR (for Varchevskiy).
2. Chelyabinskiy metallurgicheskiy zavod (for Lokhov, Klyushin).
3. Tsentral'naya laboratoriya Vsesoyuznogo nauchno-issledovatel'skogo instituta transportnogo stroitel'stva (for Yudin).  
(Metallurgical laboratories--Equipment and supplies)

S/137/62/000/004/199/201  
A154/A101

AUTHOR: Lokhov, P. F.

TITLE: Quantitative determination of deleterious impurities on DFS-13 spectrograph

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 4, 1962, 13, abstract 4K79 ("Sb. nauchno-tekhn. tr. N.-1. in-ta metallurgii Chelyab. sovnarkhoza", 1961, issue 3, 204)

TEXT: Simultaneous determination of Pb, Bi, Sn, Sb, Cu, B, in Ni-based alloys is performed with the use of DFS-13 (DFS-13) spectrograph. The magazine is loaded with two plates: to the left-type II, with a sensitivity of 16 or 22 units, - to the right - type II, with a sensitivity of 11 units. The spectrograph's slit is 0.015 mm; its intermediate diaphragm is 5 mm. An AC arc is used for the source, I = 8 amp.; exposure = 1 min. 30 sec. without roasting. The analytical pairs (in Å): Pb 2,833.1, Bi 3,067.7, Cu 2,824.4, Sn 3,175 - Ni 2,863.7; B 2,496.8, Sb 2,598.1 - Ni 2,561.4.

[Abstracter's note: Complete translation]

M. Nikitina

Card 1/1



S/081/62/000/022/010/088  
B177/B186

AUTHORS: Kosheleva, Ye. D., Lokhov, P. F.

TITLE: Spectral analysis of tungsten in chrome-tungsten-manganese steel, using the  $\Phi\delta(-1)$  (FES-1)

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 123, abstract 22D67 (In collection: Teoriya i praktika metallurgii, no. 4, Sverdlovsk. Metallurgizdat, 1961, 178-180)

TEXT: The article describes a modified method, previously devised by N. V. Buyanov and others (RZhKhim, 1959, no. 1; 997). The width of the outlet slit was changed from 0.085 to 0.06 mm, and a more convenient method of drawing the analytical lines was proposed. Reproducibility of the analysis, determined for a sample with a 1.5% concentration of W, showed an error of 1.8%. [Abstracter's note: Complete translation.]

Card 1/1

KOSHELEVA, Ye.D.; LOKHOV, P.F.

Spectrum analysis of tungsten in chromium-tungsten-manganese  
steel by means of the FES-1 photoelectric flaw detector.  
[Sbor. trud.] Nauch.-issl.inst.met. no.4:178-180 '61.  
(MIRA 15:11)

(Tungsten—Spectra)  
(Photoelectric measurements)

CHUMAKOV, Yu.I.; LEDOVSKIKH, V.M.; LOKHOV, R.Ye.; RALKO, V.A.

1,3-di-(2-pyridyl)propane. Metod.poluch.khim.reak. i prepar. no.7:  
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LOKHOV, Yu. N.

AUTHOR  
TITLE

GALANIN, A.D., LOKHOV, Yu. N. 56-7-52/66  
On the Divergence of the Series of the Perturbation Theory  
in the Theory with a Nonrelativistic Nucleon.  
(O skhodimosti ryada teorii vozmushcheniy v teorii s  
nerelyativistkim nuklonom.- Russian)  
Zhurnal Eksperim, i Teoret. Fiziki 1957, Vol 33, Nr 7,  
pp 285-286 (USSR)

PERIODICAL

ABSTRACT

First reference is made in short to two papers dealing  
with this subject. The problem of the nonrelativistical  
nucleon which interacts with a pseudoscalar symmetrical  
meson field has hitherto not been analytically and  
rigorously solved. Nevertheless it is possible also in  
this case to carry out the convergence of the series of  
the perturbation theory to the end. To the interaction

$$(g_0/2\mu)\psi^\dagger [(\sigma \nabla)(\tau_1 \varphi_1)] \psi$$

there corresponds a certain rule for the writting down of  
Feynman's diagrams. It is characterized sufficiently  
well by writing down one of the matrix elements which  
corresponds to the diagram of the proper energy. Also the  
rules for the circling round the poles in connection with  
integration in the complex plane are mentioned in short.

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After integration with respect to the angle one obtains

$$M(E) = \frac{1}{6} \left( \frac{g_0}{2\mu} \right)^2 \sigma_1 \tau_j \sigma_1 \tau_j \int_0^{\Lambda} k^4 dk / (E + \sqrt{k^2 + \mu^2}) \sqrt{k^2 + \mu^2}.$$

where  $\Lambda$  denotes the boundary momentum. If, further, the mass of the meson is disregarded and if one goes over to dimensionless integration variables,

$$M(z) = \frac{1}{6} \left( \frac{g_0 \Lambda}{2\mu} \right)^2 \Lambda \sigma_1 \tau_j \sigma_1 \tau_j \int_0^1 \frac{x^3 dx}{z + x}$$

( $z = E/\Lambda$ )  
is obtained. The rules for the construction of the complicated diagrams are easily obtained by means of a generalization of this example. In the case under investigation the theory is renormalizable and  $\Lambda$  can tend towards infinity after renormalization. However, by the introduction of a finite boundary momentum the amount of the integral is reduced and the convergence of the series according

CARD 2/3

56-7-52/66

On the Divergence of the Series of the Perturbation Theory in the Theory with a Nonrelativistic Nucleon.

to powers of  $g_1^2$  is reduced. The series according to powers of  $g_1^2$  is, in the theory of the interaction of a nonrelativistic nucleon with a neutral scalar meson field, a majorant for the theory with pseudoscalar symmetric meson field. In this theory the series of the perturbation theory has an infinitely great convergence radius.

(No Illustrations)

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CARD 3/3

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DAVYDOV, M.V.; LOKHOVA, M.D.

Simplified and accelerated method for serodiagnosis by means of microagglutination in a dark field in a diluted drop. Trudy ISGMI 30:129-134 '56. (MIRA 10:8)

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(HEMACCUTINATION,

micro-agglut. of diluted drop in dark field in serodiag. (Rus))

(SERODIAGNOSIS,

micro-agglut. of diluted drop in dark field (Rus))



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2. Leningradskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya (for Chirilova, Yagodinskiy).
3. Institut epidemiologii i mikrobiologii imeni N.F.Garalei AMN SSSR, Moskva (for Pchelkina, Korenberg).
4. Moskovskiy nauchno-issledovatel'skiy Institut virusnykh preparatov (for Likhova).